OMB Control No.: 2127-0004

## Part 573 Safety Recall Report

15V-689

Manufacturer Name : Toyota Motor Engineering & Manufacturing Submission Date : OCT 21,2015 NHTSA Recall No. : 15V-689 Manufacturer Recall No. : COM



## Manufacturer Information :

Manufacturer Name : Toyota Motor Engineering & Manufact Address : 19001 South Western Avenue Torrance CA 90501 Company phone : 1-800-331-4331

## **Population** :

Number of potentially involved : 2,000,000 Estimated percentage with defect : 0

## Vehicle Information :

Vehicle: 2009-2011 Toyota Tundra Vehicle Type : **Body Style :** Power Train : NR Descriptive Information : Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall. (2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition. (3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier. Production Dates : JAN 01, 2009 - DEC 31, 2010 VIN (Vehicle Identification Number) Range **Begin** : NR End: NR Not sequential VINs Vehicle: 2009-2011 Toyota Sequoia Vehicle Type : Body Style : Power Train : NR Descriptive Information : Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall. The information contained in this report was submitted pursuant to 49 CFR §573

1 573 Salety Ke	call Report	15V-689	Pa
	<ul> <li>(2) The same models, which have the different type of grease application above-mentioned two periods are incondition.</li> <li>(3) Other Toyota and Lexus vehicles contain sliding electrical contact modules that are of a different designation.</li> </ul>	and which were manufactured be nvolved in recall 12V-491 for a sin s are equipped with PWMS's that odules, contain sliding electrical c	etween the milar either do not ontact
Production Dates : JA	AN 01, 2009 - DEC 31, 2010		
	fication Number) Range		
Begin : NR	End : NR	🗌 Not s	equential VINs
	tion : Note: (1) Only the involved vehicles (PWMS) containing a sliding electri with a spray-type grease application above production periods are inclu- (2) The same models, which have th different type of grease application above-mentioned two periods are i condition. (3) Other Toyota and Lexus vehicles contain sliding electrical contact mo modules that are of a different design UG 01, 2008 - DEC 31, 2010	cal contact module which was ma n at the above-mentioned supplie ded in this recall. ne same sliding electrical contact and which were manufactured be nvolved in recall 12V-491 for a sin s are equipped with PWMS's that odules, contain sliding electrical c	nufactured r during the module with a etween the milar either do not ontact
	fication Number) Range		
Begin : NR	End : NR	□ Not s	equential VINs
Vehicle Type : Body Style : Power Train : NR	tion : Note: (1) Only the involved vehicles (PWMS) containing a sliding electri with a spray-type grease application above production periods are inclu- (2) The same models, which have the different type of grease application above-mentioned two periods are in	cal contact module which was man n at the above-mentioned supplie ded in this recall. The same sliding electrical contact is and which were manufactured be	nufactured r during the module with a etween the

t 573 Safety Re	call Report	15V-689	Рад
	contain sliding electrical con	vehicles are equipped with PWMS's ntact modules, contain sliding electri ent design or are manufactured at a c	cal contact
Production Dates : A	.UG 01, 2008 - DEC 31, 2010		
	fication Number) Range		
Begin : NR	End : 1	NR 🔲 🛛	Not sequential VINs
Vehicle : 2007-2007 Vehicle Type : Body Style : Power Train : NR Descriptive Informa	tion : Note: (1) Only the involved (PWMS) containing a sliding with a spray-type grease ap above production periods an (2) The same models, which different type of grease appl above-mentioned two perio condition. (3) Other Toyota and Lexus contain sliding electrical con	vehicles equipped with a Power Wing electrical contact module which wa plication at the above-mentioned sup re included in this recall. have the same sliding electrical con ication and which were manufacture ds are involved in recall 12V-491 for vehicles are equipped with PWMS's itact modules, contain sliding electric ont design or are manufactured at a c	is manufactured pplier during the tact module with a ed between the r a similar that either do not ical contact
Production Dates : JA	AN 01, 2006 - AUG 31, 2006		
VIN (Vehicle Identi	fication Number) Range		
Begin : NR	End : 1	NR 🗌 🗎	Not sequential VINs
Vehicle : 2009-2009 Vehicle Type : Body Style : Power Train : NR			
Descriptive Informa	<ul> <li>(PWMS) containing a sliding with a spray-type grease appabove production periods at (2) The same models, which different type of grease applabove-mentioned two perio condition.</li> <li>(3) Other Toyota and Lexus contain sliding electrical contain sliding</li></ul>	vehicles equipped with a Power Win g electrical contact module which wa plication at the above-mentioned sup re included in this recall. have the same sliding electrical con lication and which were manufacture ds are involved in recall 12V-491 for vehicles are equipped with PWMS's intact modules, contain sliding electric ant design or are manufactured at a c	as manufactured pplier during the tact module with a ed between the r a similar that either do not ical contact

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Production Dates - IAP	N 01, 2009 - MAR 31, 2009		
vin (venicie identifi	cation Number) Range		
Begin : NR	End : NR	Not sequential	l VINs
Vehicle : 2006-2011	Tovota RAV4		
Vehicle Type :	5		
Body Style :			
Power Train : NR			
	<ul> <li>with a spray-type grease application at above production periods are included</li> <li>(2) The same models, which have the sa different type of grease application and above-mentioned two periods are invo condition.</li> <li>(3) Other Toyota and Lexus vehicles are contain sliding electrical contact modul modules that are of a different design or an above.</li> </ul>	in this recall. The sliding electrical contact module we which were manufactured between the ved in recall 12V-491 for a similar e equipped with PWMS's that either do es, contain sliding electrical contact	vith a le not
D. I. I' D.I. AII	0 01 0005 000 01 0010		
VIN (Vehicle Identifi	G 01, 2005 - DEC 31, 2010 cation Number) Range End : NP	□ Not soquential	l VINc
VIN (Vehicle Identifi		Not sequential	l VINs
	<b>cation Number) Range</b> End : NR	Not sequential	l VINs
VIN (Vehicle Identifi Begin : NR Vehicle : 2009-2011 Vehicle Type : Body Style : Power Train : NR	<b>cation Number) Range</b> End : NR	upped with a Power Window Master St contact module which was manufacture the above-mentioned supplier during t in this recall. ume sliding electrical contact module w which were manufactured between th ved in recall 12V-491 for a similar	witch ed the vith a e
VIN (Vehicle Identifi Begin : NR Vehicle : 2009-2011 Vehicle Type : Body Style : Power Train : NR Descriptive Information	cation Number) Range End : NR Toyota Corolla on : Note: (1) Only the involved vehicles eq (PWMS) containing a sliding electrical of with a spray-type grease application at above production periods are included (2) The same models, which have the sa different type of grease application and above-mentioned two periods are invo condition. (3) Other Toyota and Lexus vehicles are contain sliding electrical contact modul	upped with a Power Window Master Stontact module which was manufacture the above-mentioned supplier during t in this recall. ume sliding electrical contact module w which were manufactured between th ved in recall 12V-491 for a similar e equipped with PWMS's that either do es, contain sliding electrical contact	witch ed the <i>r</i> ith a e not
VIN (Vehicle Identifi Begin : NR Vehicle : 2009-2011 Vehicle Type : Body Style : Power Train : NR Descriptive Information	cation Number) Range End : NR Toyota Corolla on : Note: (1) Only the involved vehicles eq (PWMS) containing a sliding electrical of with a spray-type grease application at above production periods are included (2) The same models, which have the sa different type of grease application and above-mentioned two periods are invo condition. (3) Other Toyota and Lexus vehicles are contain sliding electrical contact modul	upped with a Power Window Master Stontact module which was manufacture the above-mentioned supplier during t in this recall. ume sliding electrical contact module w which were manufactured between th ved in recall 12V-491 for a similar e equipped with PWMS's that either do es, contain sliding electrical contact	witch ed the <i>r</i> ith a e not

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Vehicle · 2009-2011	Toyota Corolla Matrix			
Vehicle Type :				
Body Style :				
Power Train : NR				
	<ul> <li>(PWMS) containing with a spray-type above production</li> <li>(2) The same model different type of g above-mentioned condition.</li> <li>(3) Other Toyota contain sliding elements</li> </ul>	ng a sliding electrical con grease application at th periods are included in dels, which have the sam grease application and w two periods are involve and Lexus vehicles are e ectrical contact modules	he sliding electrical contact which were manufactured bo ed in recall 12V-491 for a si equipped with PWMS's that , contain sliding electrical c	anufactured er during the module with a etween the milar either do not contact
Production Datas · IA	modules that are N 01, 2009 - DEC 31, 2	Ũ	are manufactured at a differ	ent supplier.
	ication Number) Rar			
Begin : NR		End : NR	🗌 Not s	sequential VIN
Vehicle: 2006-2010	Tovota Yaris			
Vehicle Type :	5			
Body Style :				
Power Train : NR				
Descriptive Informati	(PWMS) containing with a spray-type above production (2) The same mod different type of g above-mentioned condition.	ng a sliding electrical con grease application at th periods are included in dels, which have the sam grease application and w two periods are involve	ne sliding electrical contact which were manufactured bo ed in recall 12V-491 for a si	anufactured er during the module with a etween the milar
	contain sliding el	ectrical contact modules	equipped with PWMS's that , contain sliding electrical c are manufactured at a differ	ontact
Production Dates : Al	JG 01, 2005 - JUN 30, 2	2010		
VIN (Vehicle Identif	ication Number) Rar	ige		
Begin : NR		End : NR	Not s	sequential VIN
Vehicle : 2009-2011 Vehicle Type : Body Style :	Toyota Scion xB			

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Power Train : NR

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Descriptive Information	<ul> <li>(PWMS) containing a sliding electric with a spray-type grease application above production periods are inclusive.</li> <li>(2) The same models, which have the different type of grease application above-mentioned two periods are condition.</li> <li>(3) Other Toyota and Lexus vehicle contain sliding electrical contact means the second structure.</li> </ul>	s equipped with a Power Window Mast ical contact module which was manufact on at the above-mentioned supplier dur ided in this recall. The same sliding electrical contact module and which were manufactured betweet involved in recall 12V-491 for a similar es are equipped with PWMS's that eithe odules, contain sliding electrical contact ign or are manufactured at a different s	ctured ring the ule with a en the er do not ct
Production Dates : AU	G 01, 2008 - JUN 30, 2010		
VIN (Vehicle Identifi	cation Number) Range		
Begin : NR	End : NR	Not seque	ntial VINs
Production Dates : AU	on : Note: (1) Only the involved vehicle (PWMS) containing a sliding electr with a spray-type grease application above production periods are inclu (2) The same models, which have the different type of grease application above-mentioned two periods are condition. (3) Other Toyota and Lexus vehicle contain sliding electrical contact me	s equipped with a Power Window Mast ical contact module which was manufac on at the above-mentioned supplier dur ided in this recall. he same sliding electrical contact modu and which were manufactured betwee involved in recall 12V-491 for a similar es are equipped with PWMS's that eithe odules, contain sliding electrical contac ign or are manufactured at a different s	ctured ring the ule with a en the er do not ct
Begin : NR	End : NR	Not seque	ential VINs
Vehicle : 2009-2010 Vehicle Type : Body Style : Power Train : NR Descriptive Informatio	on : Note: (1) Only the involved vehicle (PWMS) containing a sliding electr with a spray-type grease applicatio	s equipped with a Power Window Mast ical contact module which was manufa on at the above-mentioned supplier dur ided in this recall.	ctured

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VI 0 II		
contain sliding electrical contact	modules, contain sliding electr	ical contact
N 01, 2009 - DEC 31, 2010		
ication Number) Range		
End : NR		Not sequential VINs
ion : Note: (1) Only the involved vehic (PWMS) containing a sliding elec with a spray-type grease applicat above production periods are inc (2) The same models, which have different type of grease application above-mentioned two periods ar condition. (3) Other Toyota and Lexus vehic contain sliding electrical contact modules that are of a different de N 01, 2009 - MAR 31, 2009	trical contact module which wa tion at the above-mentioned su cluded in this recall. If the same sliding electrical cor on and which were manufactur e involved in recall 12V-491 fo cles are equipped with PWMS's modules, contain sliding electr	as manufactured applier during the ntact module with a red between the r a similar that either do not ical contact
End : NR		Not sequential VINs
	les equipped with a Power Wir	ndow Master Switch
(PWMS) containing a sliding elec with a spray-type grease applicat above production periods are inc (2) The same models, which have different type of grease application	trical contact module which wa tion at the above-mentioned su cluded in this recall. The same sliding electrical cor on and which were manufactur	as manufactured applier during the ntact module with a red between the
	above-mentioned two periods ar condition. (3) Other Toyota and Lexus vehic contain sliding electrical contact modules that are of a different de N 01, 2009 - DEC 31, 2010 <b>ication Number) Range</b> End : NR Toyota Camry ion : Note: (1) Only the involved vehic (PWMS) containing a sliding elec with a spray-type grease applicati above production periods are ind (2) The same models, which have different type of grease applicati above-mentioned two periods ar condition. (3) Other Toyota and Lexus vehic contain sliding electrical contact modules that are of a different de N 01, 2009 - MAR 31, 2009 <b>ication Number) Range</b> End : NR Toyota Camry HV ion : Note: (1) Only the involved vehic (PWMS) containing a sliding election (2) The same models, which have different type of grease application sources that are of a different de N 01, 2009 - MAR 31, 2009 <b>ication Number) Range</b> (2) The same models, which have different type of grease application above production periods are ind (2) The same models, which have different type of grease application above production periods are ind (2) The same models, which have different type of grease application above mentioned two periods are ind (2) The same models, which have different type of grease application above-mentioned two periods are ind (2) The same models, which have	different type of grease application and which were manufactur above-mentioned two periods are involved in recall 12V-491 fo condition. (3) Other Toyota and Lexus vehicles are equipped with PWMS's contain sliding electrical contact modules, contain sliding electri- modules that are of a different design or are manufactured at a N 01, 2009 - DEC 31, 2010 <b>ication Number) Range</b> End : NR

contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.         Production Dates : JAN 01, 2006 - AUG 31, 2006         VIN (Vehicle Identification Number) Range         Begin : NR       End : NR         Description of Defect :         Description of Defect :         Description of the Defect : The subject vehicles are equipped with a driver's side Power Window Master Switch (PWMS) containing sliding electrical contact modules. These modules are lubricated with a sprayed-on grease that may have been applied inconsistently during the manufacturing process, not providing sufficient coverage. During normal operation, debris caused by wear from the electrical contact points can accumulate between the terminals where the grease was insufficiently applied, and a short circuit could form between the contact points by the debris and conductive moisture that may enter the module. If a short circuit ocurs, the switch assembly may overheat and melt. A melting switch may produce smoking and, potentially, lead to a fire.         FWVSS 1 : NR         Description of the Safety Risk : If a short circuit occurs, the switch assembly may overheat and melt. A melting switch may produce smoking and, potentially, lead to a fire.         Description of the Cause : NR         Identification :         Component Manufacturer         Name :: TRAM, Inc.         Address: 47200 Port Street         Plymouth MICHIGAN 28170         Country: United States	art 573 Safety Recall Re	port	<b>15V-689</b> Pag	ge
VIN (Vehicle Identification Number) Range         Begin : NR       End : NR       Not sequential VINs         Description of Defect :       Description of Defect :       Not sequential VINs         Description of the Defect :       The subject vehicles are equipped with a driver's side Power Window Master Switch (PWMS) containing sliding electrical contact modules. These modules are lubricated with a sprayed-on grease that may have been applied inconsistently during the manufacturing process, not providing sufficient coverage. During normal operation, debris caused by wear from the electrical contact points can accumulate between the terminals where the grease was insufficiently applied, and a short circuit could form between the contact points by the debris and conductive may overheat and melt. A melting switch may produce smoking and, potentially, lead to a fire.         FMVSS 1 : NR       FMVSS 2 : NR         Description of the Safety Risk : If a short circuit occurs, the switch assembly may overheat and melt. A melting switch may produce smoking and, potentially, lead to a fire.         Description of the Cause : NR       Identification is a fire.         Supplier Identification :       Component Manufacturer         Name : TRAM, Inc.       Address : 47200 Port Street         Phymouth MICHIGAN 28170       Phymouth MICHIGAN 28170				
VIN (Vehicle Identification Number) Range         Begin: NR       End: NR       Not sequential VINs         Description of Defect :       The subject vehicles are equipped with a driver's side Power Window Master Switch (PWMS) containing sliding electrical contact modules. These modules are lubricated with a sprayed-on grease that may have been applied inconsistently during the manufacturing process, not providing sufficient coverage. During normal operation, debris caused by wear from the electrical contact points can accumulate between the terminals where the grease was insufficiently applied, and a short circuit could form between the contact points by the debris and conductive may overheat and melt. A melting switch may produce smoking and, potentially, lead to a fire.         FMVSS 1 : NR         FMVSS 2 : NR         Description of the Cause : NR         Identification i:         Supplier Identification :         Component Manufacturer         Name : TRAM, Inc.         Address : 47200 Port Street         Phymouth MICHIGAN 28170	Production Dates : JAN 01. 20	)6 - AUG 31. 2006		
Begin: NR       End: NR       Not sequential VINs         Description of Defect :       The subject vehicles are equipped with a driver's side Power Window Master Switch (PWMS) containing sliding electrical contact modules. These modules are lubricated with a sprayed-on grease that may have been applied inconsistently during the manufacturing process, not providing sufficient coverage. During normal operation, debris caused by wear from the electrical contact points can accumulate between the terminals where the grease was insufficiently applied, and a short circuit could form between the contact points by the debris and conductive moisture that may enter the module. If a short circuit occurs, the switch assembly may overheat and melt. A melting switch may produce smoking and, potentially, lead to a fire.         FMVSS 1 : NR         FMVSS 2 : NR         Description of the Safety Risk : If a short circuit occurs, the switch assembly may overheat and melt. A melting switch may produce smoking and, potentially, lead to a fire.         Description of the Cause : NR         Identification i         Component Manufacturer         Name : TRAM, Inc.         Address : 47200 Port Street         Phymouth MICHIGAN 28170				
Description of the Defect : The subject vehicles are equipped with a driver's side Power Window Master Switch (PWMS) containing sliding electrical contact modules. These modules are lubricated with a sprayed-on grease that may have been applied inconsistently during the manufacturing process, not providing sufficient coverage. During normal operation, debris caused by wear from the electrical contact points can accumulate between the terminals where the grease was insufficiently applied, and a short circuit could form between the contact points by the debris and conductive moisture that may enter the module. If a short circuit occurs, the switch assembly may overheat and melt. A melting switch may produce smoking and, potentially, lead to a fire. FMVSS 1 : NR FMVSS 2 : NR Description of the Safety Risk : If a short circuit occurs, the switch assembly may overheat and melt. A melting switch may produce smoking and, potentially, lead to a fire. Description of the Cause : NR Identification of Any Warning that can Occur : NR Supplier Identification : Component Manufacturer Name : TRAM, Inc. Address : 47200 Port Street Plymouth MICHIGAN 28170	Begin : NR	End : NR	Not sequential VINs	
Component Manufacturer Name : TRAM, Inc. Address : 47200 Port Street Plymouth MICHIGAN 28170	Description of the Defect : The Swit lubr duri norr accu a she mois may lead FMVSS 1 :NR FMVSS 2 :NR Description of the Safety Risk : Description of the Cause : NR	ch (PWMS) containing sliding electric cated with a sprayed-on grease that n ing the manufacturing process, not pro- nal operation, debris caused by wear f mulate between the terminals where ort circuit could form between the con- ture that may enter the module. If a s overheat and melt. A melting switch is to a fire.	al contact modules. These modules are may have been applied inconsistently oviding sufficient coverage. During from the electrical contact points can the grease was insufficiently applied, and ntact points by the debris and conductive short circuit occurs, the switch assembly may produce smoking and, potentially,	
<b>Chronology :</b> Please see the attached Part 573 Defect Information Report for the full chronology.	Component Manufacturer Name : TRAM, Inc. Address : 47200 Port Street Plymouth MICHIGAN Country : United States Chronology :			

Description of Remedy Program : Description of Corrective Repair Action:

All known owners of the subject vehicles will be notified by first class mail to return their vehicles to a Toyota or a GM dealer to inspect the PWMS and, if abnormality is found, the PWMS circuit board will be replaced with an

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	improved one. If no abnor grease that inhibits heat bu	mality is found, the dealer will apply ild-up.	y specialized
	The owner letter will instru	re-notification remedies for Toyota act vehicle owners who have paid to o this campaign to seek reimbursem arsement Plan.	have this
	vehicles (Pontiac Vibe): Pursuant to 577.11(e), Gen owners for repairs complet	re-notification remedies for General eral Motors will provide reimburse ted on or before ten days after GM n n submitted on May 20, 2015.	ment to
How Remedy Component Diffe Identify How/When Recall Con	-		
<b>Recall Schedule :</b> Description of Recall Schedule	copy of the draft owner notif	yota models will occur by Decembe ication letter(s) will be submitted as ill provide its schedule separately.	
		on Schedule: 'dealers was sent on October 20, 20 pe submitted as they are issued.	15. Copies of
Planned Dealer Notification Da	nte : OCT 20, 2015 - OCT 20, 20	)15	

\* NR - Not Reported